10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KDM6A Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO2213a

Specification

KDM6A Antibody - Product Information

Application	**E, WB, FC**
Primary Accession	O15550
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a**
Calculated MW	**154kDa KDa**

Description
This gene is located on the X chromosome and is the corresponding locus to a Y-linked gene which encodes a tetratricopeptide repeat (TPR) protein. The encoded protein of this gene contains a JmjC-domain and catalyzes the demethylation of tri/dimethylated histone H3. Multiple alternatively spliced transcript variants have been found for this gene.

Immunogen
Purified recombinant fragment of human KDM6A (AA: 1252-1401) expressed in E. Coli.

Formulation
Purified antibody in PBS with 0.05% sodium azide

KDM6A Antibody - Additional Information

Gene ID 7403

Other Names
Lysine-specific demethylase 6A, 1.14.11.-, Histone demethylase UTX, Ubiquitously-transcribed TPR protein on the X chromosome, Ubiquitously-transcribed X chromosome tetratricopeptide repeat protein, KDM6A, UTX

Dilution
E~~1/10000
WB~~1/500 - 1/2000
FC~~1/200 - 1/400

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
KDM6A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

KDM6A Antibody - Protein Information

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Name KDM6A

Synonyms UTX

Function
Histone demethylase that specifically demethylates 'Lys-27' of histone H3, thereby playing a central role in histone code (PubMed:17851529, PubMed:17713478, PubMed:17761849). Demethylates trimethylated and dimethylated but not monomethylated H3 'Lys-27' (PubMed:17851529, PubMed:17713478, PubMed:17761849). Plays a central role in regulation of posterior development, by regulating HOX gene expression (PubMed:17851529). Demethylation of 'Lys-27' of histone H3 is concomitant with methylation of 'Lys-4' of histone H3, and regulates the recruitment of the PRC1 complex and monoubiquitination of histone H2A (PubMed:17761849). Plays a demethylase-independent role in chromatin remodeling to regulate T-box family member-dependent gene expression (By similarity).

Cellular Location
Nucleus.

KDM6A Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture